

A  
CATALOGUE  
OF  
Optical, Mathematical, and Philosophical  
Instruments,

MADE AND SOLD BY  
W. AND S. JONES,

[ No. 135, ]

NEXT FURNIVAL'S-INN, HOLBORN, LONDON.

OPTICAL INSTRUMENTS.

|                                                                                                                                                                                    | £. | s. | d. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| BEST double-jointed standard gold spectacles, with pebbles, and fish-skin gold-mounted case . . . . .                                                                              | 16 | 16 | 0  |
| Ditto single-jointed, with ditto case . . . . .                                                                                                                                    | 10 | 10 | 0  |
| Best double-jointed silver ditto, with pebbles . . . . .                                                                                                                           | 1  | 16 | 0  |
| Ditto, ditto, with glasses . . . . .                                                                                                                                               | 1  | 1  | 0  |
| Best single-jointed, with pebbles . . . . .                                                                                                                                        | 1  | 8  | 0  |
| Ditto, with glasses . . . . .                                                                                                                                                      | 0  | 13 | 0  |
| Best double-jointed steel ditto, with glasses . . . . .                                                                                                                            | 0  | 9  | 0  |
| An improved sort of ditto for ladies . . . . .                                                                                                                                     | 0  | 10 | 6  |
| Second best double-jointed steel spectacles, with spring case . . . . .                                                                                                            | 0  | 7  | 6  |
| Common ditto . . . . .                                                                                                                                                             | 0  | 4  | 6  |
| Best single-jointed steel spectacles . . . . .                                                                                                                                     | 0  | 4  | 6  |
| Second best ditto . . . . .                                                                                                                                                        | 0  | 2  | 6  |
| Common ditto . . . . .                                                                                                                                                             | 0  | 1  | 6  |
| Tortoiseshell spectacles, silver-jointed, with pointed, and other shaped sides, peculiar for their lightness and uninterrupted of dressed hair, in morocco leather cases . . . . . | 0  | 10 | 6  |
| Ditto, double-jointed frames . . . . .                                                                                                                                             | 0  | 15 | 0  |
| Spectacles for eyes that have been couched . . . . .                                                                                                                               | 0  | 7  | 6  |
| Ditto with green glasses for very weak and inflamed eyes, according to the frames, from 6s. to . . . . .                                                                           | 1  | 1  | 0  |
| Ditto for the same purpose, with new contrived portable shades to screen the eyes from candle, or other light . . . . .                                                            | 0  | 15 | 0  |
| Nose spectacles in silver . . . . .                                                                                                                                                | 0  | 7  | 6  |
| Ditto in tortoiseshell and silver . . . . .                                                                                                                                        | 0  | 4  | 0  |
| Ditto in horn and steel . . . . .                                                                                                                                                  | 0  | 1  | 6  |
| Spectacle cases in very great variety, from 2d. each to . . . . .                                                                                                                  | 10 | 10 | 0  |
| Concave glasses for short-sighted persons, in horn cases . . . . .                                                                                                                 | 0  | 1  | 6  |
| Ditto in tortoiseshell, pearl, silver, &c. from 2s. 6d. to . . . . .                                                                                                               | 2  | 2  | 0  |
| Ditto in new-contrived frames for gentlemen when shooting . . . . .                                                                                                                | 0  | 16 | 0  |
| Reading and burning glasses, in various mountings, from 1s. to . . . . .                                                                                                           | 1  | 16 | 0  |
| Convex glasses for watch-makers, engravers, &c. from 1s. to . . . . .                                                                                                              | 0  | 10 | 6  |
| Goggles, to guard the eyes from the dust or wind . . . . .                                                                                                                         | 0  | 3  | 0  |

|                                                                                                                                                                                                                                                                                                  | £.  | s. | d. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|
| New green-light shades for the eyes .....                                                                                                                                                                                                                                                        | 0   | 6  | 6  |
| Opera glasses, in great variety of mountings, from 4s. 6d. to .....                                                                                                                                                                                                                              | 2   | 12 | 6  |
| Ditto, on an improved construction of glasses, plain mounting .....                                                                                                                                                                                                                              | 1   | 1  | 0  |
| REFRACTING TELESCOPES of various lengths, from 6s. to .....                                                                                                                                                                                                                                      | 1   | 16 | 0  |
| Ditto to use at sea by night, from 1l. 11s. 6d. to .....                                                                                                                                                                                                                                         | 2   | 12 | 6  |
| Achromatic stick telescopes of various lengths from 18s. to .....                                                                                                                                                                                                                                | 4   | 0  | 0  |
| The new-improved ditto, with three sliding brass tubes, by which an instantaneous view of the object is obtained, and shuts up very short for the pocket, of one foot in length, in a case .....                                                                                                 | 1   | 11 | 6  |
| Second best two-drawers, ditto .....                                                                                                                                                                                                                                                             | 1   | 1  | 0  |
| Twenty inch best three-drawers, ditto .....                                                                                                                                                                                                                                                      | 2   | 12 | 6  |
| Ditto second best two-drawers .....                                                                                                                                                                                                                                                              | 1   | 10 | 0  |
| Two feet best three-drawers, ditto .....                                                                                                                                                                                                                                                         | 4   | 4  | 0  |
| Ditto second best, ditto .....                                                                                                                                                                                                                                                                   | 3   | 3  | 0  |
| Three feet, best four-drawer ditto .....                                                                                                                                                                                                                                                         | 6   | 6  | 0  |
| Second best ditto .....                                                                                                                                                                                                                                                                          | 4   | 4  | 0  |
| The preceding telescopes, fitted up elegantly with silver or plated tubes, from 2l. 2s. to .....                                                                                                                                                                                                 | 21  | 0  | 0  |
| Astronomical eye-pieces and portable brass stands for the above, from 10s. 6d. to .....                                                                                                                                                                                                          | 2   | 12 | 6  |
| The new-improved $2\frac{1}{2}$ feet achromatic refractor, on a brass stand, mahogany tube, with two sets of eye-glasses, one magnifying about forty times for terrestrial objects, and the other about seventy-five times for astronomical purposes, packed in a mahogany box .....             | 9   | 9  | 0  |
| Ditto, ditto, the tube all brass .....                                                                                                                                                                                                                                                           | 10  | 10 | 0  |
| The $3\frac{1}{2}$ feet ditto, ditto, mahogany tube .....                                                                                                                                                                                                                                        | 16  | 16 | 0  |
| Ditto, ditto, brass tube .....                                                                                                                                                                                                                                                                   | 18  | 18 | 0  |
| Ditto all in brass, with rack-work motions, &c. ....                                                                                                                                                                                                                                             | 24  | 3  | 0  |
| Achromatic perspective glasses for the pocket, in brass, &c. tubes, with a change of eye-glasses, from 12s. to .....                                                                                                                                                                             | 3   | 3  | 0  |
| New-improved ditto, answering the purpose of an opera-glass, with a compass, and helioscope for viewing the sun, from 1l. 3s. to .....                                                                                                                                                           | 2   | 2  | 0  |
| New-improved achromatic pocket telescope, which, by a small apparatus within its tubes, is readily converted into a compound microscope .....                                                                                                                                                    | 3   | 13 | 6  |
| An improved portable seven-inch achromatic telescope in brass, with a stand that packs up into the tube of the telescope, adapted for astronomical uses .....                                                                                                                                    | 3   | 13 | 6  |
| REFLECTING TELESCOPES, fitted up either upon the <i>Gregorian</i> , <i>Newtonian</i> , or <i>Herschelian</i> principles, with improved wood, or metal stands, and other apparatus for making celestial observations in the most commodious and accurate manner—The general prices are as follow: |     |    |    |
| — Fifteen feet in length, the large metal fifteen inches in diameter, from 250l. to .....                                                                                                                                                                                                        | 500 | 0  | 0  |
| — Twelve feet in length, fourteen inch metal .....                                                                                                                                                                                                                                               | 200 | 0  | 0  |
| — Ten feet in length, twelve inch metal .....                                                                                                                                                                                                                                                    | 150 | 0  | 0  |
| — Eight feet in length, eleven inch metal .....                                                                                                                                                                                                                                                  | 140 | 0  | 0  |
| — Six feet in length, nine inch metal .....                                                                                                                                                                                                                                                      | 100 | 0  | 0  |

|                                                                                                                                                                                                                                                                                                                                                            | £. s. d. |    |   |
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| — Four feet long, in brass tubes, with portable brass or mahogany framed stands, from 40l. to .....                                                                                                                                                                                                                                                        | 100      | 0  | 0 |
| <i>Those reflectors that are constructed upon the principles of Newton or Herschel are about twice the above lengths in the tubes. The reflectors upon the usual Gregorian construction are made with the vertical motion upon a new principle, so as to render them more firm and steady while in use, than any reflectors mounted in the old manner.</i> |          |    |   |
| Three feet long, mounted on a brass stand, common mounting .....                                                                                                                                                                                                                                                                                           | 22       | 1  | 0 |
| Ditto with rack-work motions, improved mounting, and metals                                                                                                                                                                                                                                                                                                | 36       | 15 | 0 |
| Two feet long, without rack-work, and with four magnifying powers .....                                                                                                                                                                                                                                                                                    | 12       | 12 | 0 |
| Ditto improved, with rack-work motions .....                                                                                                                                                                                                                                                                                                               | 22       | 1  | 0 |
| Eighteen inches on a plain stand .....                                                                                                                                                                                                                                                                                                                     | 8        | 8  | 0 |
| Twelve inches ditto .....                                                                                                                                                                                                                                                                                                                                  | 5        | 5  | 0 |
| Telescopes of both the above kinds fitted up with equatorial, &c. motions; micrometers; adjusting, compensating, &c. apparatus, for the most accurate astronomical purposes.                                                                                                                                                                               |          |    |   |
| Common MICROSCOPES, from 2s. 6d. to .....                                                                                                                                                                                                                                                                                                                  | 1        | 1  | 0 |
| Wilson's single pocket microscopes, from 18s. to .....                                                                                                                                                                                                                                                                                                     | 2        | 12 | 6 |
| Compound microscopes improved, from 2l. 12s. 6d. to ..                                                                                                                                                                                                                                                                                                     | 5        | 5  | 0 |
| New improved universal ditto .....                                                                                                                                                                                                                                                                                                                         | 6        | 6  | 0 |
| Ditto, with the most complete apparatus .....                                                                                                                                                                                                                                                                                                              | 10       | 10 | 0 |
| Solar microscopes in brass, improved, from 4l. 14s. 6d. to                                                                                                                                                                                                                                                                                                 | 6        | 6  | 0 |
| The new opaque and transparent solar microscopes, with improved apparatus, from 12l. 12s. to .....                                                                                                                                                                                                                                                         | 16       | 16 | 0 |
| Ditto of a larger size, with additional megalascopic apparatus, from 14l. 14s. to .....                                                                                                                                                                                                                                                                    | 19       | 19 | 0 |
| Ditto, and best compound ditto, packed together in one mahogany box .....                                                                                                                                                                                                                                                                                  | 21       | 0  | 0 |
| The LUCERNAL MICROSCOPE, as improved by W. JONES, exhibiting images of opaque and transparent objects by night or day, in a manner singularly pleasing, brilliant and distinct, with upwards of 100 objects, proper apparatus, patent lamp, &c. ....                                                                                                       |          |    |   |
| Ditto, combined with a solar, compound, &c. apparatus, forming the <i>most perfect</i> collection of microscopical apparatus .....                                                                                                                                                                                                                         | 35       | 14 | 0 |
| A portable optical apparatus, consisting of a scioptric ball and socket, a solar microscope, Wilson's microscope, a pocket compound microscope, a pocket telescope, and solar telescope, in mahogany and brass .....                                                                                                                                       |          |    |   |
| Pocket microscopes for opaque objects from 16s. to .....                                                                                                                                                                                                                                                                                                   | 2        | 12 | 6 |
| Botanic microscopes for flowers, &c. from 5s. to .....                                                                                                                                                                                                                                                                                                     | 1        | 11 | 6 |
| A new universal pocket ditto, adapted to all sorts of objects                                                                                                                                                                                                                                                                                              | 1        | 6  | 0 |
| Cloth microscopes from 2s. 6d. to .....                                                                                                                                                                                                                                                                                                                    | 0        | 10 | 6 |
| Magic lanterns, from 1l. 4s. to .....                                                                                                                                                                                                                                                                                                                      | 1        | 8  | 0 |
| Sliders for ditto in great variety of subjects, each .....                                                                                                                                                                                                                                                                                                 | 0        | 3  | 6 |
| A new set of moveable painted sliders, shewing the fundamental principles of astronomy, with the real and apparent motions and positions of the planets, stars, &c. &c. accompanied by a proper improved lantern, complete ..                                                                                                                              | 12       | 12 | 0 |

|                                                                                                                                                                                     | £. | s. | d. |
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| Small magic lanterns, with twelve sliders complete, at 7s. 6d. 10s. 6d. 12s. and .....                                                                                              | 1  | 0  | 0  |
| Ditto with twelve sliders of best English paintings .....                                                                                                                           | 2  | 2  | 0  |
| Optical diagonal machines for viewing prints, from 18s. to .....                                                                                                                    | 1  | 11 | 6  |
| Perspective views in great variety for ditto, each .....                                                                                                                            | 0  | 1  | 6  |
| Scioptic balls and sockets from 10s. 6d. to .....                                                                                                                                   | 1  | 11 | 6  |
| An artificial eye in brass, to exemplify the nature of vision .....                                                                                                                 | 1  | 11 | 6  |
| Camera obscuras for the pocket, from 9s. to .....                                                                                                                                   | 1  | 16 | 0  |
| A new invented folding ditto, very portable .....                                                                                                                                   | 2  | 2  | 0  |
| Large ditto, shutting up like a book, or neat portable chest, the objects represented on paper, from 4l. 14s. 6d. to ..                                                             | 8  | 18 | 6  |
| Concave and convex glass mirrors, in plain black frames, four, five, six, and seven inches diameter, each 9s. 12s. 14s. and .....                                                   | 0  | 18 | 0  |
| Eight inches diameter ditto .....                                                                                                                                                   | 1  | 1  | 0  |
| Nine inches ditto .....                                                                                                                                                             | 1  | 7  | 0  |
| Ten inches ditto .....                                                                                                                                                              | 1  | 12 | 0  |
| Twelve inches ditto .....                                                                                                                                                           | 2  | 5  | 0  |
| Fifteen inches ditto .....                                                                                                                                                          | 3  | 13 | 6  |
| Eighteen inches ditto .....                                                                                                                                                         | 6  | 6  | 0  |
| Twenty-one inches ditto .....                                                                                                                                                       | 11 | 11 | 0  |
| Twenty-four inches ditto .....                                                                                                                                                      | 16 | 16 | 0  |
| Concave mirrors, ground cylindrically, possessing several curious properties in the deformation of objects, according to the size, from 1l. 1s. to .....                            | 5  | 5  | 0  |
| Concave metal burning mirrors, superior to the glass ones, from 3l. 13s. 6d. to .....                                                                                               | 21 | 0  | 0  |
| Glass prisms, plain, or mounted on stands, from 7s. 6d. to ..                                                                                                                       | 1  | 11 | 6  |
| A curious set of optical models, where the rays of light are represented by silken strings, and illustrating the principles of vision, telescopes, prisms, &c. packed in five cases | 6  | 16 | 6  |

### MATHEMATICAL INSTRUMENTS.

|                                                                                                                                                                                                                                    |    |    |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|
| THEODOLITES of the common construction, and of the best workmanship, from 4l. 4s. to .....                                                                                                                                         | 31 | 10 | 0 |
| A portable theodolite, with a telescope, level, and vertical arch                                                                                                                                                                  | 7  | 7  | 0 |
| Ditto larger, with parallel plates, &c. divided to two minutes                                                                                                                                                                     | 12 | 12 | 0 |
| Ditto with rack-work motions, divisions to a minute ....                                                                                                                                                                           | 22 | 1  | 0 |
| A new-improved theodolite, with two telescopes, and contrivances for every accurate adjustment .....                                                                                                                               | 36 | 15 | 0 |
| A new very portable theodolite, by rack-work, measuring angles with equal accuracy as those of the common large sort, is at the same time applicable for taking altitudes, and is truly adapted for the purpose of levelling ..... | 8  | 8  | 0 |
| A 4-inch further improved ditto, by which the vertical and horizontal angles are shewn at the same time, with portable staves, &c. ....                                                                                            | 10 | 10 | 0 |
| Circumferentors, much used in wood lands, from 2l. 2s. to                                                                                                                                                                          | 4  | 4  | 0 |
| An improved ditto, contrived to answer the purposes of a common theodolite, level, altitude instrument, &c. ....                                                                                                                   | 4  | 14 | 6 |
| Surveying crosses or squares, on a staff, from 12s. to ....                                                                                                                                                                        | 1  | 11 | 6 |

|                                                                                                                                                                                                                                                                   | £. | s. | d. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| A brass cylindrical ditto, with a staff . . . . .                                                                                                                                                                                                                 | 0  | 18 | 6  |
| Ditto with compass, agate capped needle, &c. . . . .                                                                                                                                                                                                              | 1  | 11 | 0  |
| Improved ditto, with rack-work and pinion, and movable<br>divided limb, making a very portable cross-staff, com-<br>pass, and theodolite, in one instrument . . . . .                                                                                             | 2  | 18 | 0  |
| Levels of the latest improvements, from 2l. 2s. to . . . . .                                                                                                                                                                                                      | 12 | 12 | 0  |
| Station staffs, with sliding vanes, for levelling . . . . .                                                                                                                                                                                                       | 2  | 12 | 6  |
| Plane tables, with index, sights, &c. complete, from 3l. 13s. 6d. to 5 . . . . .                                                                                                                                                                                  | 5  | 5  | 0  |
| Pentagraphs, by which any person unskilled in drawing may<br>copy plans, surveys, profiles, drawings, &c. in any pro-<br>portion to the original, from 1l. 16s. to . . . . .                                                                                      | 6  | 16 | 6  |
| Perambulators, or measuring wheels, from 6l. 6s. to . . . . .                                                                                                                                                                                                     | 10 | 10 | 0  |
| Gunter's measuring chain, according to strength, from 5s. to . . . . .                                                                                                                                                                                            | 0  | 10 | 6  |
| — navigation scale, from 2s. to . . . . .                                                                                                                                                                                                                         | 0  | 4  | 0  |
| — ditto improved by Donn, with book of directions . . . . .                                                                                                                                                                                                       | 0  | 5  | 0  |
| — ditto improved by Robertson, with brass adjusting<br>screws, &c. being the completest scale of the kind . . . . .                                                                                                                                               | 1  | 10 | 0  |
| — sectors of various lengths, from 2s. to . . . . .                                                                                                                                                                                                               | 1  | 11 | 6  |
| A new pocket ten inch box sliding rule for solving all sorts<br>of problems in trigonometry, &c. . . . .                                                                                                                                                          | 0  | 2  | 6  |
| A universal trigon in box wood and brass, for solving tri-<br>gonometrical problems by inspection . . . . .                                                                                                                                                       | 1  | 10 | 0  |
| Measuring tapes, one, two, three, and four poles 5s. 7s. 6d. 9s. . . . .                                                                                                                                                                                          | 0  | 10 | 6  |
| Pedeometers for ascertaining distances in walking or riding,<br>of a watch size for the pocket, and also to apply to car-<br>riages, from 3l. 3s. to . . . . .                                                                                                    | 12 | 12 | 0  |
| Miner's compasses for working in subterraneous grounds,<br>from 10s. 6d. to . . . . .                                                                                                                                                                             | 1  | 11 | 6  |
| Cases of drawing instruments, from 4s. 6d. to . . . . .                                                                                                                                                                                                           | 5  | 5  | 0  |
| Magazine, or complete collection of every kind of useful<br>drawing instruments, from 5l. 5s. to . . . . .                                                                                                                                                        | 35 | 0  | 0  |
| A new portable drawing board and seat, the board folds up<br>for the pocket, and the legs of the seat form a walking stick . . . . .                                                                                                                              | 0  | 18 | 0  |
| Proportional compasses, from 1l. 10s. to . . . . .                                                                                                                                                                                                                | 3  | 3  | 0  |
| Elliptical compasses of various degrees of perfection and<br>utility, from 16s to . . . . .                                                                                                                                                                       | 4  | 14 | 6  |
| Spiral and elliptical compasses, from 6s. 6d. to . . . . .                                                                                                                                                                                                        | 10 | 10 | 0  |
| Triangular compasses, by which three points at once may<br>be transferred, from 13s. to . . . . .                                                                                                                                                                 | 1  | 5  | 0  |
| Hair compasses that take extents to a great accuracy . . . . .                                                                                                                                                                                                    | 0  | 7  | 6  |
| Beam compasses for dividing large circles, projections, &c.<br>from 1l. 1s. to . . . . .                                                                                                                                                                          | 10 | 0  | 0  |
| Bow compasses for describing very small circles, from 2s. 6d. to . . . . .                                                                                                                                                                                        | 0  | 12 | 0  |
| Perspective compasses, to take angles, &c, from 1l. 5s. to . . . . .                                                                                                                                                                                              | 2  | 12 | 6  |
| Parallel rulers of different constructions, from 2s. to . . . . .                                                                                                                                                                                                 | 2  | 12 | 6  |
| Protractors for laying down angles, from 2s. to . . . . .                                                                                                                                                                                                         | 1  | 1  | 0  |
| Ditto, with a nonius and moveable limb . . . . .                                                                                                                                                                                                                  | 2  | 2  | 0  |
| Ditto, ditto, with teeth and pinion . . . . .                                                                                                                                                                                                                     | 4  | 10 | 0  |
| Sets of protracting and plotting scales; instruments for divid-<br>ing lines, or transferring divisions on paper. An instru-<br>ment for describing circles, from four or six inches radius,<br>or to the utmost conceivable distance—Gunners callipers . . . . . |    |    |    |

|                                                                                     |    |      |
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| —Gunners levels or perpendiculars—Shot gauges—Shell                                 |    |      |
| ditto—Gunners quadrants, with a plummet or level, or                                |    |      |
| adjusting screw, &c. and all other instruments for mili-                            |    |      |
| tary purposes.                                                                      |    |      |
| HADLEY'S QUADRANTS, mahogany, the divisions on wood                                 | 1  | 11 6 |
| Ditto mahogany with ivory arch and nonius, double observation                       | 2  | 2 0  |
| Ditto, ditto, a brass index, double observation                                     | 2  | 12 6 |
| Ditto, ebony and brass, best glasses, engine divided, &c. . .                       | 3  | 0 0  |
| Ebony and brass mounted best sextants, from 4l. 4s. to . .                          | 8  | 18 6 |
| Metal ditto, all brass, framed on a principle the least liable                      |    |      |
| to be warped or strained, with adjusting screws, telescopes,                        |    |      |
| and other auxiliary apparatus, the most proper for taking                           |    |      |
| distances accurately, to determine the longitude at sea, &c.                        | 12 | 12 0 |
| Ditto, second best                                                                  | 8  | 8 0  |
| A new small 3-inch pocket box sextant to take angles to                             |    |      |
| a minute, from 2l. 2s. to                                                           | 3  | 3 0  |
| Artificial horizons, by parallel glasses and quicksilver, to                        |    |      |
| take double altitudes by                                                            | 1  | 16 0 |
| Gunter's quadrant, from 4s. to                                                      | 1  | 1 0  |
| Azimuth compasses of different constructions, from 5l. 5s. to                       | 12 | 12 0 |
| Pocket compasses from 2s. 6d. to                                                    | 5  | 5 0  |
| Horizontal sun-dials, in brass, made for any latitude, of                           |    |      |
| four, five, or six inches diameter, divided into five minutes                       |    |      |
| of time, each at 6s. 9s. and                                                        | 0  | 12 0 |
| Ditto seven inches                                                                  | 0  | 16 0 |
| Ditto eight inches, into two minutes                                                | 1  | 4 0  |
| Ditto ten inches, ditto                                                             | 1  | 16 0 |
| Ditto twelve inches, ditto                                                          | 2  | 10 0 |
| Ditto fifteen inches, into every minute, thirty-two points                          |    |      |
| of the compass, &c.                                                                 | 4  | 14 6 |
| Ditto eighteen inches, ditto, ditto, with equation table, &c.                       | 8  | 8 0  |
| Ditto 2 feet diameter, ditto, ditto                                                 | 15 | 15 0 |
| A new universal ditto and equatorial, making a very por-                            |    |      |
| table angular instrument, from 8l. 8s. to                                           | 31 | 10 0 |
| Universal ring dials, from 7s. 6d. to                                               | 10 | 10 0 |
| <i>For a general description and representation of the instruments used in sur-</i> |    |      |
| <i>veying, levelling, and other branches of practical geometry, see the late</i>    |    |      |
| <i>Mr. G. ADAMS'S Geometrical and Graphical Essays, an improved</i>                 |    |      |
| <i>edition by W. JONES, 8vo. 1797, with 35 copper plates.</i>                       |    |      |

#### ASTRONOMICAL, &c. INSTRUMENTS.

|                                                           |     |      |
|-----------------------------------------------------------|-----|------|
| A portable TRANSIT INSTRUMENT, with a cast iron stand,    |     |      |
| to ascertain the rate of chronometers, the longitude, &c. |     |      |
| the axis is twelve inches in length, and the telescope    |     |      |
| about twenty inches, packed in a case                     | 12  | 12 0 |
| Ditto, with a brass framed stand, and other additions     | 20  | 0 0  |
| Transit instruments of larger dimensions made to order.   |     |      |
| The new CIRCULAR INSTRUMENTS and EQUATORIALS,             |     |      |
| from 63l. to                                              | 180 | 0 0  |
| Planetariums, shewing the phenomena of the Ptolemaic      |     |      |
| and Copernican systems, from 7l. 7s. to                   | 50  | 0 0  |

|                                                                                                                                                                                                                                                                              | £.   | s. | d. |
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| Manual orreries of the common construction from 2l. 12s. 6d to .....                                                                                                                                                                                                         | 6    | 6  | 0  |
| Jones's (Wm.) new portable orrery, the tellurian part ....                                                                                                                                                                                                                   | 1    | 1  | 0  |
| Ditto, the planetarium part .....                                                                                                                                                                                                                                            | 1    | 1  | 0  |
| Tellurian and planetarium together, making the <i>New Portable Orrery</i> , packed in a neat mahogany box, according to the sizes, from 2l. 12s. 6d. to .....                                                                                                                | 5    | 5  | 0  |
| An orrery shewing the motions of Mercury, Venus, the Earth and Moon, by wheel-work, the Earth is a $1\frac{1}{2}$ inch globe, packed in a box .....                                                                                                                          | 4    | 4  | 0  |
| Other planetariums and orreries in great variety, the motions by wheel-work, exemplifying all the motions and phaenomena of all the planets, the Georgium Sidus included, from 40l. to .....                                                                                 | 1000 | 0  | 0  |
| Cometariums, for exemplifying the motion of comets, from 1l. 11s. 6d. to .....                                                                                                                                                                                               | 5    | 5  | 0  |
| Senex's globes improved, twenty-eight inches diameter, mahogany frames, from 25l. to .....                                                                                                                                                                                   | 50   | 0  | 0  |
| Senex's globes improved, seventeen inches diameter, mounted in the common manner .....                                                                                                                                                                                       | 6    | 6  | 0  |
| Twelve inch ditto, improved by Ferguson, with all the new discoveries of Capt. Cooke, &c. with the new hour circles, which supersede all the intended advantages of cumbersome wires, and other appendages, in other globes, mounted in neat mahogany claw-feet frames ..... | 5    | 5  | 0  |
| Ditto, in common coloured wood frames .....                                                                                                                                                                                                                                  | 3    | 3  | 0  |
| Additional price of a compass, and fitting to both globes..                                                                                                                                                                                                                  | 0    | 5  | 0  |
| A pair of red leather covers for the globes .....                                                                                                                                                                                                                            | 0    | 9  | 6  |
| Globes, nine inches diameter, with the new discoveries ..                                                                                                                                                                                                                    | 2    | 2  | 0  |
| Ditto, three inches ditto, in claw-feet, mahogany frames                                                                                                                                                                                                                     | 1    | 10 | 0  |
| Ditto, three inches single, one in a case for the pocket ..                                                                                                                                                                                                                  | 0    | 9  | 0  |
| Geographical planispheres, to solve problems, mounted as a hand fire-screen .....                                                                                                                                                                                            | 0    | 7  | 6  |
| A brass armillary sphere, three inches diameter .....                                                                                                                                                                                                                        | 3    | 3  | 0  |
| A six inch ditto .....                                                                                                                                                                                                                                                       | 6    | 6  | 0  |
| A nine inch ditto .....                                                                                                                                                                                                                                                      | 9    | 9  | 0  |
| A twelve inch ditto .....                                                                                                                                                                                                                                                    | 12   | 12 | 0  |
| Larger ditto, with planetarium, from 21l. to .....                                                                                                                                                                                                                           | 105  | 0  | 0  |

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#### PHILOSOPHICAL, &c. INSTRUMENTS.

|                                                                                                               |    |    |   |
|---------------------------------------------------------------------------------------------------------------|----|----|---|
| A single-barrel AIR PUMP, with receiver .....                                                                 | 2  | 12 | 6 |
| Improved ditto, exhausting more accurately .....                                                              | 5  | 15 | 6 |
| A small double-barrel air pump, with gage plate .....                                                         | 5  | 5  | 0 |
| A middle size ditto .....                                                                                     | 6  | 16 | 6 |
| A large size table ditto .....                                                                                | 10 | 10 | 0 |
| Air pumps of the largest sort, exhausting more accurately, from the constructions of the different inventors. |    |    |   |
| Condensing engines, from 2l. 2s. to .....                                                                     | 21 | 0  | 0 |
| Air guns, for experiments, &c. ....                                                                           | 16 | 16 | 0 |
| Papin's digester improved, on a stand .....                                                                   | 5  | 15 | 6 |

£. s. d.

*The principal Apparatus for the Air Pump as follow:*

|                                                                                                                                                          |    |    |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|
| Guinea and feather apparatus, demonstrating the resistance of the air, with one, two, or three falls, from 18s. to ..                                    | 1  | 10 | 0 |
| A set of wind-mills, for the same demonstration .....                                                                                                    | 1  | 10 | 0 |
| The brass hemispheres, shewing the air's external pressure, from 14s. to .....                                                                           | 1  | 10 | 0 |
| A bell, proving that there is no sound without air .....                                                                                                 | 0  | 10 | 6 |
| Improved constructions of this bell, from 1l. 1s. to .....                                                                                               | 3  | 3  | 0 |
| Lead weights, with bladder, &c. proving the air's elasticity                                                                                             | 0  | 17 | 0 |
| The double transferrer, that transfers a vacuum from one receiver to another, by turning stop-cocks only .....                                           | 3  | 0  | 0 |
| A model of a water-pump, exemplifying the nature of pumps, and proving the absurdity of what is called <i>suction</i> ....                               | 1  | 4  | 0 |
| A single transferrer, plate and pipe, for a fountain .....                                                                                               | 0  | 18 | 0 |
| A copper air-pipe for experiments on infected air .....                                                                                                  | 0  | 17 | 0 |
| A flat plate, collar of leathers, with sliding wire, for placing on receivers .....                                                                      | 0  | 12 | 0 |
| An apparatus for firing gun-powder in vacuo .....                                                                                                        | 0  | 18 | 0 |
| A copper bottle, beam and stand, for accurately weighing of air                                                                                          | 2  | 12 | 6 |
| A glass vessel for making a fountain in vacuo .....                                                                                                      | 0  | 5  | 6 |
| Ditto on a larger, and different construction .....                                                                                                      | 0  | 16 | 0 |
| A glass with a bladder, shewing the action of the lungs ..                                                                                               | 0  | 6  | 0 |
| Ditto mounted with the figure of a Bacchus .....                                                                                                         | 1  | 10 | 0 |
| A balance beam and stand .....                                                                                                                           | 0  | 7  | 0 |
| A filtering cup shewing the porosity of vegetables .....                                                                                                 | 0  | 5  | 0 |
| A plate and piece of wood for the same purpose .....                                                                                                     | 0  | 4  | 6 |
| An apparatus for striking flint and steel in vacuo .....                                                                                                 | 0  | 18 | 0 |
| The Torricellian experiment .....                                                                                                                        | 0  | 18 | 0 |
| Fruit stand .....                                                                                                                                        | 0  | 3  | 6 |
| Candlestick .....                                                                                                                                        | 0  | 3  | 6 |
| Syringe with lead weight .....                                                                                                                           | 0  | 10 | 6 |
| Six breaking squares, cage and cap .....                                                                                                                 | 0  | 7  | 6 |
| Glass bubble and stand .....                                                                                                                             | 0  | 3  | 0 |
| Hand and bladder glasses .....                                                                                                                           | 0  | 3  | 6 |
| With a great variety of receivers, and other apparatus, described by various authors.                                                                    |    |    |   |
| Exhausting and condensing syringes, from 10s. 6d. to ..                                                                                                  | 1  | 11 | 6 |
| Exhausting syringes, with sets of cupping glasses .....                                                                                                  | 1  | 11 | 6 |
| Air fountains of copper, with various jets, from 3l. 13s. 6d. to                                                                                         | 7  | 7  | 0 |
| ELECTRICAL MACHINES, with conductors and jars, from 2l. 12s. 6d. to .....                                                                                | 10 | 10 | 0 |
| New and much improved ditto, from 3l. 13s. 6d. to .....                                                                                                  | 42 | 0  | 0 |
| Electrical machines and complete apparatus, for medical purposes, packed in boxes, the cylinder from seven to ten inches diameter, from 6l. 6s. to ..... | 12 | 12 | 0 |
| An electrical machine, with apparatus for philosophical experiments and medical uses, packed in a box, the cylinder about eight inches diameter .....    | 8  | 18 | 6 |

*Apparatus for Electrical Machines as follow:*

|                                                             |    |    |   |
|-------------------------------------------------------------|----|----|---|
| Electrical batteries of combined jars, from 2l. 12s. 6d. to | 10 | 10 | 0 |
| An universal discharger, with a press .....                 | 1  | 8  | 0 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                           | £. | s. | d. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| A quadrant electrometer, with divided arch .....                                                                                                                                                                                                                                                                                                                                                                                                          | 0  | 7  | 6  |
| Jointed dischargers, with glass handles .....                                                                                                                                                                                                                                                                                                                                                                                                             | 0  | 10 | 6  |
| Plain ditto, ditto .....                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0  | 5  | 6  |
| An useful and illustrative apparatus, compounded of the<br>luminous conductor, exhausted flask, two jars, exhausted<br>syringe, insulated stand, and wires with balls, &c.<br>complete .....                                                                                                                                                                                                                                                              | 3  | 0  | 0  |
| Luminous conductors, from 12s. to .....                                                                                                                                                                                                                                                                                                                                                                                                                   | 1  | 5  | 0  |
| Exhausted flasks, called Aurora Borealis .....                                                                                                                                                                                                                                                                                                                                                                                                            | 0  | 6  | 6  |
| A thunder house, demonstrating the use of conductors ..                                                                                                                                                                                                                                                                                                                                                                                                   | 0  | 6  | 0  |
| A powder house, for the same purpose .....                                                                                                                                                                                                                                                                                                                                                                                                                | 0  | 16 | 0  |
| An obelisk or pyramid for ditto .....                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 10 | 6  |
| A set of plain bells, three to a set .....                                                                                                                                                                                                                                                                                                                                                                                                                | 0  | 7  | 6  |
| A new set of musical ditto, containing the gamut .....                                                                                                                                                                                                                                                                                                                                                                                                    | 1  | 10 | 0  |
| A magic picture for giving shocks .....                                                                                                                                                                                                                                                                                                                                                                                                                   | 0  | 7  | 6  |
| An electrical cannon, to be discharged by inflammable air                                                                                                                                                                                                                                                                                                                                                                                                 | 0  | 16 | 0  |
| Brass pistols for ditto .....                                                                                                                                                                                                                                                                                                                                                                                                                             | 0  | 7  | 6  |
| Spiral tubes, to illuminate by the spark, from 4s. 6d. to ..                                                                                                                                                                                                                                                                                                                                                                                              | 0  | 10 | 6  |
| Luminous names, or words, from 10s. 6d. to .....                                                                                                                                                                                                                                                                                                                                                                                                          | 1  | 11 | 6  |
| Spotted jars, from 6s. to .....                                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | 10 | 6  |
| A double jar for explaining the Franklinian theory ....                                                                                                                                                                                                                                                                                                                                                                                                   | 0  | 15 | 0  |
| Copper plates and stands for dancing images .....                                                                                                                                                                                                                                                                                                                                                                                                         | 0  | 9  | 0  |
| An electrical tin fire house .....                                                                                                                                                                                                                                                                                                                                                                                                                        | 0  | 10 | 6  |
| An electrical shooter and mark .....                                                                                                                                                                                                                                                                                                                                                                                                                      | 0  | 5  | 0  |
| A mahogany stand for eggs .....                                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | 4  | 6  |
| A small head with hair .....                                                                                                                                                                                                                                                                                                                                                                                                                              | 0  | 7  | 6  |
| An artificial spider .....                                                                                                                                                                                                                                                                                                                                                                                                                                | 0  | 1  | 6  |
| An electrical swan .....                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0  | 2  | 0  |
| An electrical star .....                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0  | 1  | 6  |
| Balls of wood, bone, &c. each from 6d. to .....                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | 2  | 6  |
| A curious collection of working models, to be set in motion<br>by the electrical fluid, consisting of a corn mill and a<br>three-barrelled water-pump, worked by one crank only:<br>an orrery, shewing the diurnal motion of the earth, age<br>and phases of the moon, &c. and astronomical clock,<br>shewing the aspects of the sun and moon, age, phases, &c.<br>all delicately made of card paper, cork, and wire only,<br>packed in a deal case ..... | 2  | 12 | 6  |
| Kinnersley's electrical air thermometer .....                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | 1  | 0  |
| Cavallo's atmospherical electrometer .....                                                                                                                                                                                                                                                                                                                                                                                                                | 0  | 12 | 0  |
| Ditto, as improved by Saussure .....                                                                                                                                                                                                                                                                                                                                                                                                                      | 1  | 1  | 0  |
| Bennet's gold leaf electrometer .....                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 18 | 0  |
| The new revolving doubler .....                                                                                                                                                                                                                                                                                                                                                                                                                           | 2  | 12 | 6  |
| An electrophorus, from 10s. 6d. to .....                                                                                                                                                                                                                                                                                                                                                                                                                  | 3  | 3  | 0  |
| Conductors for the preservation of ships, houses, &c. from<br>lightning, from 3l. 3s. to .....                                                                                                                                                                                                                                                                                                                                                            | 5  | 5  | 0  |

*The medical Apparatus consists of,*

|                                                                                                    |   |   |   |
|----------------------------------------------------------------------------------------------------|---|---|---|
| Jars with electrometers, from 12s. to .....                                                        | 1 | 1 | 0 |
| A new medical ditto, for communicating shocks in the<br>most convenient and qualified manner ..... | 0 | 7 | 6 |
| A pair of directors, glass handles, wood points, &c. ....                                          | 0 | 7 | 6 |

|                                                                                                                                                                                                                                                                                                                                                                                        | £. | s. | d. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| An electrometer to apply to the conductor .....                                                                                                                                                                                                                                                                                                                                        | 0  | 6  | 6  |
| Electrical insulated stools and chairs, from 9s. to .....                                                                                                                                                                                                                                                                                                                              | 5  | 5  | 0  |
| A new perpetual inflammable air lamp, lighted by the electrophorus, a curious and useful apparatus .....                                                                                                                                                                                                                                                                               | 4  | 4  | 0  |
| A variety of other apparatus, too numerous to be inserted here, which as well as the machines, are mounted from the most approved, eligible methods, so as to render them in action both powerful and permanent.                                                                                                                                                                       |    |    |    |
| BAROMETERS plain mounted from 1l. 11s. 6d. to .....                                                                                                                                                                                                                                                                                                                                    | 2  | 12 | 6  |
| Thermometers for all the various purposes, from 9s. to ...                                                                                                                                                                                                                                                                                                                             | 3  | 3  | 0  |
| Six's new thermometers, for shewing the extremes of heat and cold, in the absence of the observer, from 1l. 11s. 6d. to                                                                                                                                                                                                                                                                | 2  | 12 | 6  |
| An hygrometer, shewing the moisture and dryness of the air                                                                                                                                                                                                                                                                                                                             | 0  | 10 | 6  |
| Barometers, thermometers, and hygrometers, all in one neat mahogany frame, from 4l. 4s. to .....                                                                                                                                                                                                                                                                                       | 6  | 6  | 0  |
| Marine barometers, diagonal, wheel, and statical ditto, and barometers for ascertaining the height of mountains.                                                                                                                                                                                                                                                                       |    |    |    |
| New hygrometers constructed by De Luc, &c. from 2l. 2s. to                                                                                                                                                                                                                                                                                                                             | 3  | 3  | 0  |
| A rain gauge, with float and tin vessel .....                                                                                                                                                                                                                                                                                                                                          | 0  | 18 | 0  |
| Wind gages, of the constructions of Dr. Lind, &c. ....                                                                                                                                                                                                                                                                                                                                 | 0  | 16 | 0  |
| Hydrometers for discovering the strength and proportion of compound in spirituous liquors, from 1l. 7s. to ....                                                                                                                                                                                                                                                                        | 3  | 3  | 0  |
| Hydrostatic balances, from 1l. 1s. to .....                                                                                                                                                                                                                                                                                                                                            | 9  | 9  | 0  |
| An apparatus for hydrostatical experiments, from 3l. 13s. 6d. to                                                                                                                                                                                                                                                                                                                       | 21 | 0  | 0  |
| Artificial magnets in bars, and sets of bars, from 2s. 6d. to                                                                                                                                                                                                                                                                                                                          | 6  | 6  | 0  |
| Ditto, in the shape of a horse-shoe, the strongest form, from 1s. 6d. to .....                                                                                                                                                                                                                                                                                                         | 1  | 1  | 0  |
| Ditto, combined to any number, from 12s. to .....                                                                                                                                                                                                                                                                                                                                      | 21 | 0  | 0  |
| A box of magnetical apparatus illustrating a variety of curious and entertaining properties in magnetism, from 5l. 5s. to                                                                                                                                                                                                                                                              | 7  | 7  | 0  |
| Dipping needles, variation, and other compasses, in great variety.                                                                                                                                                                                                                                                                                                                     |    |    |    |
| Pyrometers, shewing the expansion of metals, from 3l. 3s. to                                                                                                                                                                                                                                                                                                                           | 10 | 10 | 0  |
| The mechanical powers, for illustrating and demonstrating the laws of motion, gravity, &c. a set neatly made in brass, consisting of the balance, the pullies, the different kinds of levers, the inclined plane, the wheel and axle, the screw, a compound engine, a compound lever, a double cone to move up an inclined plane, friction wheels, weights, wedges, &c. complete ..... | 25 | 4  | 0  |
| The same occasionally made on a more enlarged plan, for a large auditory.                                                                                                                                                                                                                                                                                                              |    |    |    |
| Ditto, with many parts of the apparatus made of mahogany, and the whole set packed in a neat mahogany box ....                                                                                                                                                                                                                                                                         | 14 | 14 | 0  |
| Separate sets of pullies, variously constructed and combined.                                                                                                                                                                                                                                                                                                                          |    |    |    |
| A small carriage with inclined plane, and wheels of different sizes, &c. experimentally proving the friction, resistance, &c. of all sorts of wheel carriages .....                                                                                                                                                                                                                    | 7  | 7  | 0  |
| Ferguson's compound engine, in which all the simple mechanical powers work together .....                                                                                                                                                                                                                                                                                              | 4  | 4  | 0  |
| A whirling table, for explaining and demonstrating the laws of the planet's motion, the demonstrations of the                                                                                                                                                                                                                                                                          |    |    |    |

|                                                                                                                                                | £. | s. | d. |
|------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| doctrine of the tides, and other properties of gravity and centrifugal force, from 7l. 7s. to .....                                            | 16 | 16 | 0  |
| Atwood's elegant and accurate apparatus for demonstrating the laws of accelerated and retarded motion, and other interesting particulars ..... | 25 | 4  | 0  |
| Several small mahogany models for explaining the center of gravity, the line of direction, &c. ....                                            | 2  | 2  | 0  |

#### FOR PHILOSOPHICAL CHEMISTRY.

|                                                                                                                                                                   |    |    |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|
| Glass bottles with bent necks, from 4s. to .....                                                                                                                  | 0  | 10 | 6 |
| A glass machine for impregnating water with fixed air, and apparatus .....                                                                                        | 2  | 12 | 6 |
| Glass eudiometer tubes, for ascertaining the salubrity of airs, &c. ....                                                                                          | 0  | 10 | 6 |
| Ditto as improved by Abbe Fontana, &c. ....                                                                                                                       | 2  | 4  | 0 |
| Gazometers by Priestley, Lavoisier, &c. from 1l. 1s. to ..                                                                                                        | 5  | 5  | 0 |
| A blow-pipe, with various caps, for fluxing metals, &c. ..                                                                                                        | 0  | 7  | 6 |
| Ditto, with silver spoon, megalascope, &c. ....                                                                                                                   | 1  | 1  | 0 |
| Ditto, ditto, with a variety of other necessary apparatus, packed in a fish-skin case, forming Cronstedt's complete pocket laboratory, improved by Magellan ..... | 2  | 12 | 6 |
| Magellan's new portable lamp furnace, with the blow-pipe, small glass retorts, &c. &c. for chemical as well as mineralogical operations .....                     | 4  | 14 | 6 |
| Ditto, with the double bellows to apply to the blow-pipe ..                                                                                                       | 7  | 7  | 0 |
| Schmeisser's new cabinet of mineralogical apparatus, from 6l. 6s. to .....                                                                                        | 10 | 10 | 0 |
| ———— portable iron furnaces, with bellows, and other apparatus .....                                                                                              | 5  | 5  | 0 |
| Double bellows, with deal table, and appendages, for glass blowing .....                                                                                          | 2  | 12 | 6 |
| A wooden tub for water, and another for quick-silver, with a selection of glass apparatus for performing the late discovered experiments on air .....             | 6  | 6  | 0 |
| A box, containing all the useful precipitants of Bergman, &c. for analysing waters, and fluxes for the blow-pipe in phials with glass stoppers .....              | 4  | 4  | 0 |
| A mahogany case containing, in phials, a variety of preparations for young persons to perform amusive and instructive chemical experiments .....                  | 3  | 13 | 6 |
| Fumigating bellows for destroying insects in gardens, by tobacco, from 1l. 6s. to .....                                                                           | 1  | 16 | 0 |

#### *Instruments of Recreation and Amusement.*

|                                                                                                                                                                                                                                         |   |   |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
| The sensitive fishes, that have the property of swimming to a piece of bread placed at the end of a stick; and, when the other end is presented, of retreating and going back, sensible, as it were, of no substance for them to eat .. | 0 | 6 | 6 |
| The sagacious swan, that with a machine makes three kinds                                                                                                                                                                               |   |   |   |

|                                                                                                                                                                                                                                                                                                                    |   |    |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|
| of amusements—1st. the swan will point out the secrets of the cards—2d. it will point answers to 16 humorous enigmas; and 3d. disclose any particular hour that was thought of, such as going to bed or rising; packed in a case . . . .                                                                           | 1 | 18 | 0 |
| A box containing four numbers and four letters, the order of which may be discovered, if ever so secretly placed, by means of a curious magic perspective . . . . .                                                                                                                                                | 0 | 10 | 0 |
| Ditto with five numbers, no perspective, but another very similar box, made in neat mahogany boxes, and more difficult to discover the reason of . . . . .                                                                                                                                                         | 1 | 18 | 0 |
| A curious magic oracle, unfolding answers to any proposed questions, secretly taken out of a bag . . . . .                                                                                                                                                                                                         | 0 | 16 | 0 |
| A magic painter, exhibiting a copy of any one of eight different paintings secretly chosen . . . . .                                                                                                                                                                                                               | 0 | 10 | 6 |
| A communicative mirror, shewing portraits of any one of four secretly chosen; an elegant and curious instrument . . . . .                                                                                                                                                                                          | 2 | 12 | 6 |
| A box containing five pieces of different metals, which may any way be secretly placed, and their situation told by the magical perspective . . . . .                                                                                                                                                              | 1 | 8  | 0 |
| An optical paradox, containing two perspectives, between which a board may be placed, and the object will be seen through them just as well as if the board was not there . . . . .                                                                                                                                | 0 | 7  | 6 |
| Ditto mounted in mahogany, larger size . . . . .                                                                                                                                                                                                                                                                   | 1 | 8  | 0 |
| An optical deception, containing from six to twelve different paintings, and which are looked down upon through a perspective, and immediately there appears another very different object, without any alteration of the instrument whatsoever, or concern of the person using it, from 1l. 11s. 6d. to . . . . . | 3 | 3  | 0 |
| A diagonal opera glass, that shews persons on one side, when the glass is presented to the object directly before you, from 6s. to . . . . .                                                                                                                                                                       | 0 | 15 | 0 |
| A multiplying glass, making one object appear a great number, from 1s. 6d. to . . . . .                                                                                                                                                                                                                            | 0 | 10 | 6 |
| A set of anamorphoses, or deformed pictures, rectified by a polished cylinder . . . . .                                                                                                                                                                                                                            | 2 | 2  | 0 |
| A mathematical recreation, containing near seventy figures on a card, any one figure being thought of, is readily pointed out, by any one using it . . . . .                                                                                                                                                       | 0 | 1  | 0 |
| The two curious mathematical cubes, one of which is gauged so as to prove it to be larger than the other, yet the large one will actually pass through the smaller one, and not in any degree stretch it . . . . .                                                                                                 | 1 | 0  | 0 |
| The mathematical paradox, a piece of wood of one figure, fits exactly, and passes through a triangular, a square, and a circular hole . . . . .                                                                                                                                                                    | 0 | 2  | 6 |
| A double cone, that apparently rolls upwards, up an inclined plane, though actually descending, . . . . .                                                                                                                                                                                                          | 0 | 4  | 6 |
| A magic well, in which may be put four buckets full of different seeds, and fairly mixed together; any particular seed of the above four kinds may be drawn up separately, and, when examined, will be found to be perfectly pure . . . . .                                                                        | 1 | 11 | 6 |

|                                                                                                                                                                                                                                                                                                 | £. | s. | d. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
| A mechanical instrument, consisting of a cube and two wooden handles, that supports itself on a point, although the entire form and weight appear evidently all on one side                                                                                                                     | 0  | 12 | 0  |
| A cylindrical mirror that produces two or three curious optical effects .....                                                                                                                                                                                                                   | 1  | 1  | 0  |
| A magic, or electrical bottle, that is charged by the rubbing of a ribband only, and will give a shock to five or six persons, with apparatus, in a pocket case .....                                                                                                                           | 0  | 10 | 6  |
| A set of the artificial fireworks imitated, containing a series of brilliant and entertaining scenes of fireworks, cascades of fire, &c. producing altogether a pleasing effect, and not attended with any trouble, noise, or danger, when using, the whole contained in a neat mahogany box .. | 7  | 7  | 0  |
| The magic lanthorn apparatus conjoined with the above..                                                                                                                                                                                                                                         | 10 | 10 | 0  |
| Concave mirrors, fitted up in boxes, to magnify prints, to shew various deceptions in an entertaining and pleasing manner, from 5l. 5s. to .....                                                                                                                                                | 12 | 0  | 0  |

Besides the preceding, a great variety of other articles too numerous to be included in this catalogue, as well as any instrumental article made from particular drawings, or, as described by the different writers upon mathematics, philosophy, chemistry, &c. &c.

Merchants, shopkeepers, schoolmasters, and others that sell again, are supplied with the best articles, and with good allowance.

Letters from the country, or abroad, containing orders, or previous enquiries, explicitly and punctually attended to.

*Les académies, observatoires et écoles des pays étrangers ainsi que les négociants, marchands et autres personnes peuvent se procurer toutes sortes d'instruments de la meilleure qualité, tant pour les matériaux, que la main d'œuvre, avec la plus grande expédition, et au plus juste prix.*

#### BOOKS PUBLISHED BY W. JONES.

|                                                                                                                                                                                                                                                                                                                                 |   |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
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